

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 2, 2019
Hours:	19:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	186.77	400kV THP - Siliguri Fdr- I	373.68	+	400kV THP-MAL fdr III shutdown till 22/10/2019
		Unit- II	188.51	400kV THP - Siliguri Fdr- II	372.46	+	
		Unit- III	186.66	400kV THP - Siliguri Fdr- IV	364.67	+	
		Unit- IV	186.66	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	187.06	400kV Malbase - Siliguri	-47.88	-	
		Unit- VI	185.51	-	-	-	
		Total	1,121.17	Error at Station/Auxiliary Consumption/Losses	10.36		
2	720MW MHP	Unit-I	82.20	400kV MHP - Jigmeling Fdr - I	232.46	+	Unit-III under break down
		Unit-II	193.00	400kV MHP - Jigmeling Fdr - II	236.14	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.00	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT	0.00		
		-	-	(Local Load)	0.00		
		Total	470.20	Error at Station/Auxiliary Consumption/Losses	1.60		
2	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	83.50	+	Unit-I under breakdown
		Unit- II	91.24	220kV CHP - Birpara Fdr- II	83.05	+	
		Unit- III	91.46	220kV CHP - Malbase Fdr- III	147.86	+	
		Unit- IV	91.27	220kV CHP - Semtokha Fdr- IV	-55.56	-	
		-	-	220kV Malbase - Birpara Fdr.	24.10	+	
		-	-	66kV CHP - Chumdo Fdr.	4.69	+	
		-	-	66kV CHP - Gedu Fdr.	8.71	+	
		-	-	3x3MVA, 66/11kV TFR	1.53	+	
		Total	273.97	Error at Station/Auxiliary Consumption/Losses	0.19		
3	24MW BHP (U/S)	Unit- I	11.80	220kV BHP - Semtokha Fdr.	95.52	+	
		Unit- II	11.80	66kV BHP - Lobeyasa Fdr.	22.17	+	
		Total	23.60	220kV BHP - Tsirang Fdr.	-52.60	-	
	40MW BHP (L/S)	Unit- I	21.01	5MVA, 66/11kV TFR	0.73	+	
		Unit- II	20.22	30MVA ICT, 220/66kV			
Total	41.23	Error at Station/Auxiliary Consumption/Losses	0.99				
4	126MW DHPC	Unit-I	50.22	220kV DHPC - Tsirang Fdr.	101.01	+	
		Unit-II	51.18	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	101.40	Error at Station/Auxiliary Consumption/Losses	0.39		
5	60MW KHP	Unit- I	16.58	132kV KHP - Nangkor Fdr- I	55.67	+	132kV GEL_SALA line under shutdown.
		Unit-II	16.47	132kV KHP - Kilikhar Fdr- II	9.60	+	
		Unit- III	16.50	5MVA, 132/11kV TFR	0.50	+	
		Unit- IV	16.38	132kV Gelephu - Salakati Fdr.	0.00	+	
		-	-	132kV Motanga - Rangia Fdr.	54.00	+	
		-	-	220kV Tsirang - Jigmeling	44.20	+	
		Total	65.93	Error at Station/Auxiliary Consumption/Losses	0.16		

Note: Load summary on October 02, 2019 at 19:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load [Generation - Export (MW)]	Total Load [Feeder Summation (MW)]	Total Export/Import	Load Balance
1	Western Grid	1,561.37	263.59	253.64	1,253.58	9.95
2	Eastern Grid	536.13	57.73	55.97	522.60	1.76
	Total	2,097.50	321.32	309.61	1,776.18	11.71

Note: Load Summary on October 02, 2018 at 19:00hrs

Sl. No	Region	19:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	264.30	264.30	281.60
2	Eastern Grid	43.55	43.55	62.24
	National	307.85	307.85	343.84

1. The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:

- i) Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
- ii) The clocks of all the locations are not synchronized.

2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

Date:	October 3, 2019
Hours:	09:00 Hours

Date	Time	Load(MW)
27-Dec-18	18:18hrs	399.35MW

Sl. No.	Hydropower Plant	Unit	MW	Name of Feeders	Load (MW)	Sign	Remarks
1	1020MW THP	Unit- I	186.92	400kV THP - Siliguri Fdr- I	375.67	+	400kV THP-Mal Fdr III under AM
		Unit- II	188.27	400kV THP - Siliguri Fdr- II	372.30	+	
		Unit- III	187.59	400kV THP - Siliguri Fdr- IV	365.20	+	
		Unit- IV	186.57	400kV THP - Malbase Fdr- III	0.00	+	
		Unit- V	186.89	400kV Malbase - Siliguri	4.19	+	
		Unit- VI	187.15	-	-	-	
		Total	1,123.39	Error at Station/Auxiliary Consumption/Losses	10.22		
2	720MW MHP	Unit-I	82.47	400kV MHP - Jigmeling Fdr - I	236.87	+	Unit-III under breakdown.
		Unit-II	193.38	400kV MHP - Jigmeling Fdr - II	235.64	+	
		Unit-III	0.00	400kV MHP - Jigmeling Fdr - III	0.00		
		Unit-IV	195.46	400kV MHP - Jigmeling Fdr - IV	0.00		
		-	-	200MVA, 400/132kV ICT			
		-	-	(Local Load)			
		Total	471.31	Error at Station/Auxiliary Consumption/Losses	-1.20		
3	336MW CHP	Unit- I	0.00	220kV CHP - Birpara Fdr- I	90.01	+	Unit-I under breakdown.
		Unit- II	91.68	220kV CHP - Birpara Fdr- II	90.21	+	
		Unit- III	91.52	220kV CHP - Malbase Fdr- III	173.97	+	
		Unit- IV	91.55	220kV CHP - Semtokha Fdr- IV	-92.19	-	
		-	-	220kV Malbase - Birpara Fdr.	14.00	+	
		-	-	66kV CHP - Chumdo Fdr.	0.11	-	
		-	-	66kV CHP - Gedu Fdr.	8.76	+	
		Total	274.75	Error at Station/Auxiliary Consumption/Losses	3.10		
4	24MW BHP (U/S)	Unit- I	11.78	220kV BHP - Semtokha Fdr.	116.67	+	
		Unit- II	11.78	66kV BHP - Lobeyasa Fdr.	19.20	+	
		Total	23.56	220kV BHP - Tsirang Fdr.	-69.65	-	
	40MW BHP (L/S)	Unit- I	21.01	5MVA, 66/11kV TFR	0.38	+	
		Unit- II	20.17	30MVA ICT, 220/66kV			
Total	41.18	Error at Station/Auxiliary Consumption/Losses	-1.86				
5	126MW DHPC	Unit-I	50.19	220kV DHPC - Tsirang Fdr.	102.21	+	
		Unit-II	52.25	220kV Jigmeling - Dagapela Fdr.			
		-	-	5MVA, 220/33kV TFR			
		Total	102.44	Error at Station/Auxiliary Consumption/Losses	0.23		
6	60MW KHP	Unit- I	16.58	132kV KHP - Nangkhor Fdr- I	61.09	+	132kV GEL_SALA Fdr under shutdown.
		Unit-II	16.74	132kV KHP - Kilikhar Fdr- II	4.80	+	
		Unit- III	16.67	5MVA, 132/11kV TFR	0.30	+	
		Unit- IV	16.69	132kV Gelephu - Salakati Fdr.	0.00	+	
		-	-	132kV Motanga - Rangia Fdr.	50.96	+	
		-	-	220kV Tsirang - Jigmeling	28.59	+	
		Total	66.68	Error at Station/Auxiliary Consumption/Losses	0.49		

Note: Load summary on October 03, 2019 at 09:00hrs.

Sl. No	Region	Total Generation (MW)	Total Load [Generation - Export (MW)]	Total Load [Feeder Summation (MW)]	Total Export/Import	Load Balance
1	Western Grid	1,565.32	225.15	213.46	1,311.58	11.69
2	Eastern Grid	537.99	43.11	43.82	523.47	-0.71
	Total	2,103.31	268.26	257.28	1,835.05	10.98

Note: Load Summary on October 03, 2018 at 09:00hrs

Sl. No	Region	09:00Hrs Load (MW)	Day Peak Load (MW)	Month Peak Load (MW)
1	Western Grid	255.77	273.50	281.60
2	Eastern Grid	38.83	55.67	62.24
	National	294.60	329.17	343.84

NOTES:

1. The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - i) Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
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2. This report is generated to give an idea of the generation & load flow for the system at a particular instant.